

1.	Unique identification code of the product-type	<b>FDMR</b>
2.	Products	Dampers – Fire dampers
	Intended use	Fire safety. To be used in conjunction with partitions to maintain fire compartments in heating, ventilating and air conditioning installations.
	Technical documentation – product information, instruction for installation and maintenance, safety information	Technical specifications <a href="#">TPM 140/19</a>
3.	Manufacturer	MANDÍK, a.s. Dobříšská 550, 26724 Hostomice, Czech Republic ID 26718405, tel. +420 311 706 706 <a href="mailto:mandik@mandik.cz">mandik@mandik.cz</a> , <a href="http://www.mandik.com">www.mandik.com</a>
5.	System of AVCP	System 1
6.	Harmonised standard	EN 15650:2010
	Notified body	Notified body No. 1391 PAVUS, a.s., Prosecká 412/74, 190 00 Praha 9 – Prosek
	Output documents of the notified body	Certificate of Constancy of Performance No. 1391-CPR-2023/0161 Assessment Report of Performance of Construction Product No. P-1391-CPR-2023/0161

7a.	<b>Declared performances – fire resistance classification</b> Essential characteristics in accordance with EN 15650:2010, art. 4.1.1	
<i>Fire separating construction, location of the damper</i>	<i>Installation type, installation system</i>	<i>Performance – class of fire resistance</i>
Solid wall construction – damper in the wall – 100 mm min. wall thickness	Mortar or gypsum <sup>1]</sup>	EI 120 (v <sub>e</sub> i↔o) S <sup>3]</sup> EI 90 (v <sub>e</sub> i↔o) S <sup>3]</sup>
	2 dampers in one opening – mortar or gypsum <sup>1]</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Installation next to wall, ceiling – mortar or gypsum and mineral wool <sup>1]</sup>	
	Installation next to wall, ceiling – mortar or gypsum <sup>1]</sup>	
	Installation next to wall, ceiling – installation frame R1, R2, R5 and mineral wool <sup>1]</sup>	
	Mineral wool with fire protection mastic and cement lime plate <sup>1], 4]</sup>	
	Installation frame R1, R2, R3, R4, R5 <sup>1]</sup>	
	Weichschott/Ablative Coated Batt <sup>1], 2]</sup>	
	2 dampers in one opening – installation frame R1 <sup>1]</sup>	EI 60 (v <sub>e</sub> i↔o) S
Fire protection foam with stucco plaster <sup>1]</sup>		

(table continues)

1] Refer to [Technical documentation](#) for the details of the installation type / installation system.

2] Installation materials may be replaced by a similar approved system of the equivalent performance.

3] Tested at increased test vacuum of 500 Pa up to diam. 315 mm (included), tested at 300 Pa for bigger diameters.

(continuation of the table)

<i>Fire separating construction, location of the damper</i>	<i>Installation type, installation system</i>	<i>Performance – class of fire resistance</i>
Solid wall construction – damper remote from the wall – 100 mm min. wall thickness	Insulation of the duct with cement lime plates – installation frame R6 <sup>1]</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Insulation of the duct with mineral wool Rockwool th. 180 mm (3 × 60) + Mineral wool with fire protection mastic and cement lime plate <sup>1]</sup>	
	Insulation of the duct with mineral wool + mortar or gypsum – ISOVER ULTIMATE PROTECT <sup>1], 2]</sup>	According to insulation thickness
	Insulation of the duct with mineral wool + Weichschott/Ablative Coated Batt – ISOVER ULTIMATE PROTECT <sup>1], 2]</sup>	EI 90 (v <sub>e</sub> i↔o) S, or EI 60 (v <sub>e</sub> i↔o) S
Gypsum plasterboard wall construction – damper in the wall – 100 mm min. wall thickness	Mortar or gypsum <sup>1]</sup>	EI 120 (v <sub>e</sub> i↔o) S <sup>3]</sup> EI 90 (v <sub>e</sub> i↔o) S <sup>3]</sup>
	2 dampers in one opening – mortar or gypsum <sup>1]</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Installation next to wall, ceiling – mortar or gypsum and mineral wool <sup>1]</sup>	
	Installation next to wall, ceiling – mortar or gypsum <sup>1]</sup>	
	Installation next to wall, ceiling – installation frame R1, R2, R5 and mineral wool <sup>1]</sup>	
	Mineral wool with fire protection mastic and cement lime plate <sup>1]</sup>	
	Installation frame R1, R2, R5 <sup>1]</sup>	
	Weichschott/Ablative Coated Batt <sup>1], 2]</sup>	
	2 dampers in one opening – installation frame R1 <sup>1]</sup>	
	Flexible ceiling – installation frame R7 <sup>1]</sup>	
	Wooden construction (beams 60x60mm) – Weichschott/Ablative Coated Batt <sup>1], 2]</sup>	
Fire protection foam with stucco plaster <sup>1]</sup>	EI 60 (v <sub>e</sub> i↔o) S	
Gypsum plasterboard wall construction – damper remote from the wall – 100 mm min. wall thickness	Insulation of the duct with mineral wool Rockwool th. 180 mm (3x60) + Mineral wool with fire protection mastic and cement lime plate <sup>1]</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Insulation of the duct with mineral wool – mortar or gypsum – ISOVER ULTIMATE PROTECT <sup>1], 2]</sup>	According to insulation thickness
	Insulation of the duct with mineral wool – Weichschott/Ablative Coated Batt – ISOVER ULTIMATE PROTECT <sup>1], 2]</sup>	EI 90 (v <sub>e</sub> i↔o) S, or EI 60 (v <sub>e</sub> i↔o) S
Sandwich wall construction – damper in the wall – 100 mm min. wall thickness	Ruukki SPB W – Weichschott/Ablative Coated Batt with cement lime plate <sup>1]</sup>	EI 90 (h <sub>o</sub> i↔o) S
	Paroc AST S – Weichschott/Ablative Coated Batt with cement lime plate <sup>1]</sup>	

(table continues)

1] Refer to [Technical documentation](#) for the details of the installation type / installation system.

2] Installation materials may be replaced by a similar approved system of the equivalent performance.

3] Tested at increased test vacuum of 500 Pa up to diam. 315 mm (included), tested at 300 Pa for bigger diameters.

(continuation of the table)

<i>Fire separating construction, location of the damper</i>	<i>Installation type, installation system</i>	<i>Performance – class of fire resistance</i>
Solid ceiling construction – damper in the ceiling – ceiling thickness – min. 110 mm for concrete – min. 125 mm for aerated concrete	Mortar or gypsum <sup>1]</sup>	EI 90 (h <sub>o</sub> i↔o) S <sup>3]</sup> EI 120 (h <sub>o</sub> i↔o) S
	2 dampers in one opening – mortar or gypsum <sup>1]</sup>	EI 90 (h <sub>o</sub> i↔o) S
	Mineral wool with fire protection mastic and cement lime plate <sup>1]</sup>	
	Installation frame R1, R2, R3, R4, R5 <sup>1]</sup>	
	Weichschott/Ablative Coated Batt <sup>1],2]</sup>	
	2 dampers in one opening – installation frame R2 <sup>1]</sup>	
Solid ceiling construction – damper remote from the ceiling – ceiling thickness – min. 110 mm for concrete – min. 125 mm for aerated concrete	Insulation of the duct with mineral wool Rockwool th. 180 mm (3x60) + mortar or gypsum <sup>1]</sup>	EI 90 (h <sub>o</sub> i↔o) S
	Concrete <sup>1]</sup>	
	Concrete with installation frame R5 <sup>1]</sup>	
	Insulation of the duct with cement lime plates – installation frame R6 <sup>1]</sup>	
	Insulation of the duct with mineral wool – mortar or gypsum – ISOVER ULTIMATE PROTECT <sup>1], 2]</sup>	According to insulation thickness EI 90 (h <sub>o</sub> i↔o) S, or EI 60 (h <sub>o</sub> i↔o) S
Thin shaft construction <sup>1]</sup>	Mortar or gypsum <sup>1]</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Installation frame R1 <sup>1]</sup>	

1] Refer to [Technical documentation](#) for the details of the installation type / installation system.

2] Installation materials may be replaced by a similar approved system of the equivalent performance.

3] Tested at increased test vacuum of 500 Pa up to diam. 315 mm (included), tested at 300 Pa for bigger diameters.

<b>7b. Declared performances – essential characteristics</b>		
<i>Essential characteristics</i>	<i>Requirements (provisions of the harmonised standard EN 15650:2010)</i>	<i>Performance (lever or class) / Compliance with the requirements</i>
Nominal activation conditions/sensitivity:	4.2.1.2	Conforms
– sensing element load bearing capacity	4.2.1.2.2	Conforms
– sensing element response temperature	4.2.1.2.3	Conforms
Response delay (response time):	4.2.1.3	Conforms
– closure time		
Operational reliability:	4.3.1, a)	50 cycles – conforms
– cycling		
Durability of response delay:	4.2.1.2.2	Conforms
– sensing element response to temperature and load bearing capacity	4.2.1.2.3	
Durability of operational reliability:	4.3.3.2	Conforms
– opening and closing cycle tests		Dampers with BELIMO actuators: C <sub>10.000</sub> Dampers with GRUNER actuators: C <sub>10.000</sub> Dampers with SCHISCHEK actuators: C <sub>10.000</sub> Dampers with MODULAR mechanism: C <sub>300</sub>

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

In Hostomice, 2023-12-11



Mgr. Jan Mičan  
CEO, Ppa  
MANDÍK, a.s.

<b>Declared performances – other characteristics</b>		
<i>Characteristics</i>	<i>Technical standard</i>	<i>Performance (lever or class) / Compliance with the requirements</i>
Resistance against corrosion	EN 15650:2010, art. 4.2.2 EN 15650:2010, Annexe B	Conforms
Application with no ducting	EN 1366-2:2015 art. 6.2.7	Conforms
Damper blade tightness	EN 1751:2014	Class 3
Damper casing tightness	EN 1751:2014	Class C

#### **Additional provisions for use of the product in Austria**

The product-type products meet also all requirements of ÖNORM H 6025 standard, cf. Assessment Report of Performance of Construction Product No. P-1391-CPR-2023/0161.